

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/980,027	MORCHE, DOMINIQUE	
	<b>Examiner</b>	<b>Art Unit</b>	
	Lana N Le	2685	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 04/07/05.
2. ☒ The allowed claim(s) is/are 1-11.
3. ☒ The drawings filed on 10 June 2005 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
|--|---|

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with applicant's representative, Tong Lee, on 06/10/05.

1. The application has been amended as follows:

In the Claims:

- in claim 1, line 8, before "passband", delete "the" and add ---a---;
- in claim 1, line 9, after "and to", delete "the" and add ---a---;
- in claim 1, line 12, after "mixing signals", add (SMV1, SMV2);
- in claim 1, line 13, after "taking", delete "the" and add -a-- and after "sum or", delete "the" and add -a--;
- in claim 1, line 15, after "of the", delete "output" and add -downstream---;
- in claim 1, line 16, after "second", add -upstream---; after "so that", delete "the" and add ---an---;
- in claim 1, line 23, before "phase-advanced", delete "the" and add ---a---; after "and", delete "the" and add ---a---;
- in claim 2, line 2, after "between", delete "the" and add ---an---;

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- in claim 2, line 2, after "and", delete "the" and add ---an---
- in claim 2, line 8, after "connected to", delete -the---
- in claim 2, line 8, before "connected to", delete "substracter (STM)" and add ----  
---substracter (STR)----;
- in claim 2, line 10, after "from", delete "the" and add -a---; after "transpose",  
delete "the" and add ---an---
- in claim 2, line 15, after "parallel", delete "branches" and add ---processing  
paths----
- in claim 2, line 15, after "receives", delete "the" and add ---a---
- in claim 2, line 16, after "shifters and", delete "the" and add -a---
- in claim 3, line 1, before "device", add ---bandpass filter---
- in claim 3, line 1, after "that", delete "the" and add -a---
- in claim 4, line 1, before "device", add ---bandpass filter---
- in claim 4, line 2, after "shifters", delete "comprises" and add -comprise-; after  
"circuits" add ---,---
- in claim 5, line 1, before "device", add ---bandpass filter---
- in claim 5, line 2, before "oscillator", delete "an" and add ---the common---
- in claim 5, line 2, before "first", delete "a" and add ---the---
- in claim 5, line 3, before "RC-CR", delete "an" and add ---a first---
- in claim 5, line 3, before "oscillator", delete "an" and add ---the common---
- in claim 5, line 4, after "coupled to", delete "a" and add -the---
- in claim 6, line 1, before "device", add ---bandpass filter---

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- in claim 6, line 1, before "capacitors", delete ~~the~~;
- in claim 6, line 2, before "same", delete "the" and add ~~a~~;
- in claim 6, line 2, before "resistance", delete ~~the~~;
- in claim 6, line 3, before "ratio" delete "the" and add ~~a~~;
- in claim 6, line 3, before "resistances", delete ~~the~~;
- in claim 4, line 4, before "resistances", delete ~~the~~;
- in claim 7, line 1, before "device", add ~~bandpass filter~~;
- in claim 7, line 1, before "resistors", delete ~~the~~;
- in claim 7, line 2, before "same", delete "the" and add ~~a~~;
- in claim 7, line 2, before "capacitors", delete "the";
- in claim 8, line 1, before "device", add ~~bandpass filter~~;
- in claim 8, line 1, before "capacitors", delete "the";
- in claim 8, line 2, before "have", delete "circuit" and add ~~circuits~~;
- in claim 8, line 3, before "resistors", delete ~~the~~;
- in claim 9, line 1, before "device", add ~~bandpass filter~~;
- in claim 9, line 2, before "parallel", delete "branches" and add ~~processing paths~~;
- in claim 10, line 1, before "device", add ~~bandpass filter~~;
- in claim 10, line 2, before "oscillator", add ~~common~~;
- in claim 11, line 1, before "device", add ~~bandpass filter~~;

### ***REASON FOR ALLOWANCE***

2. Claims 1-11 are allowable over the cited prior art.
3. The following is an examiner's statement of reasons for allowance:

Regarding independent claims 1 and 2, Heck, Morche, and the cited prior art fail to disclose or suggest for the reason as set forth in applicant's remarks, filed 04/07/05, page 7, line 10 – page 8, line 8.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lana N Le whose telephone number is (703) 308-5836. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F Urban can be reached on (703) 305-4385. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read "Lana Le", with a stylized flourish at the end.

Lana Le

June 17, 2005

REPLACEMENT SHEET

PCT/FR00/01448

1/2  
 FIG. 1

PRIOR ART

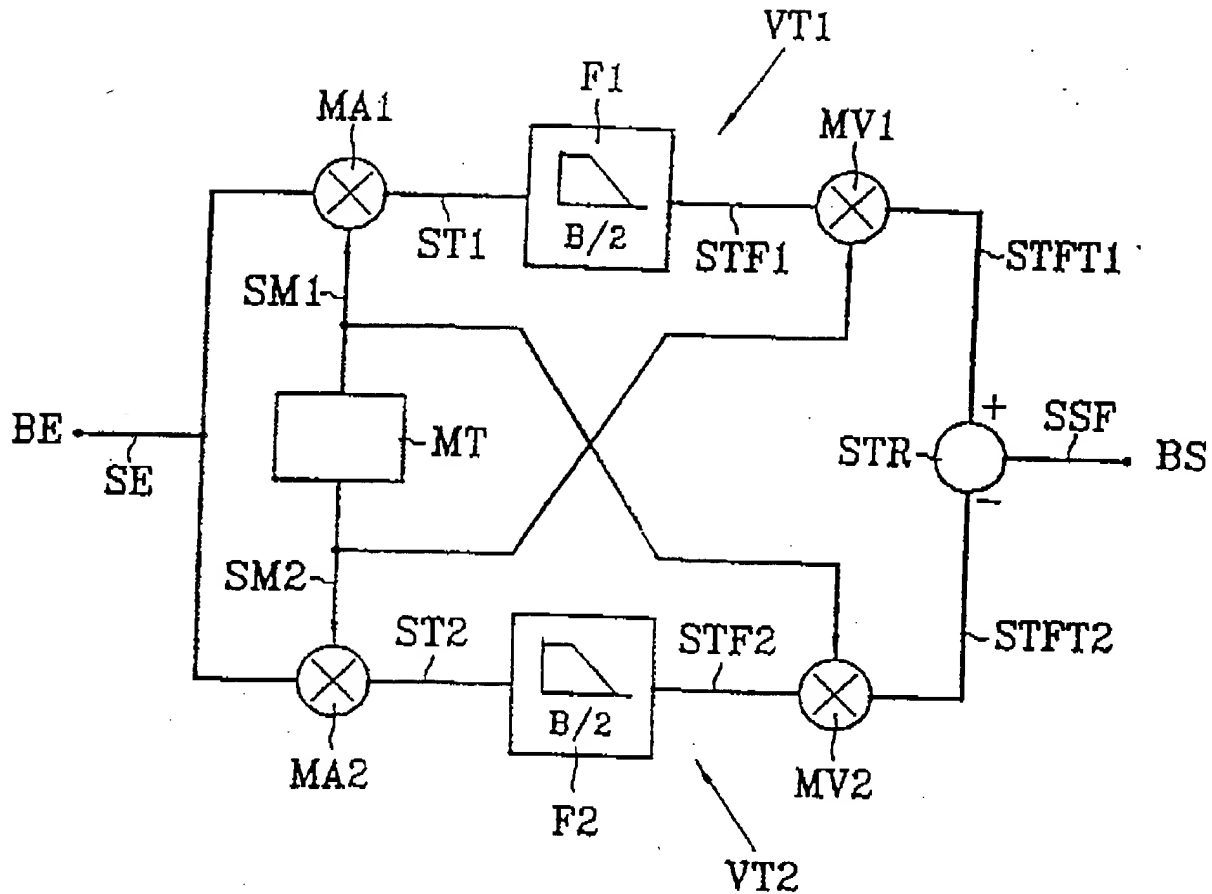
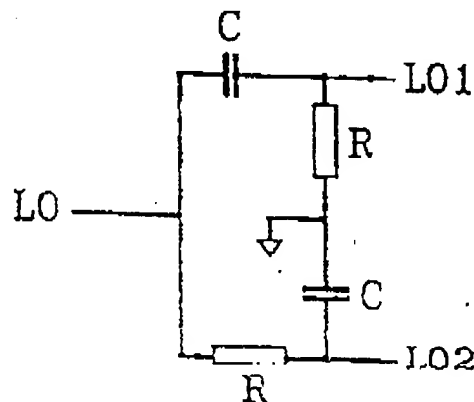


FIG. 2

PRIOR ART



2/2  
FIG. 3

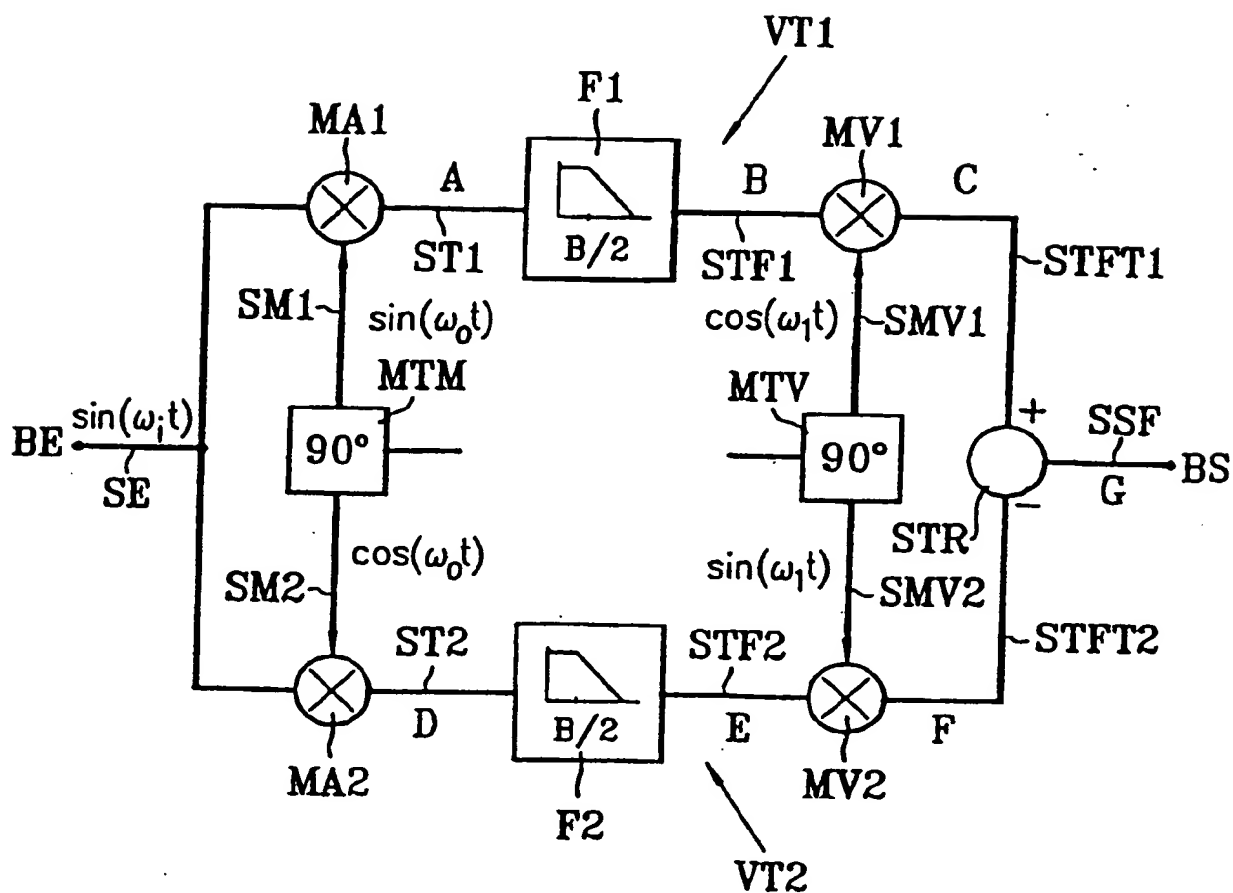


FIG. 4

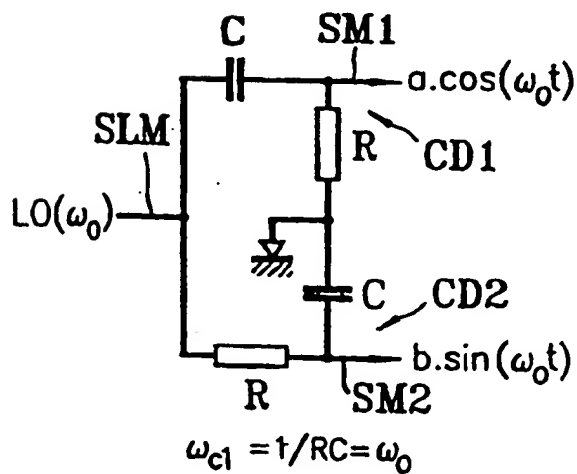


FIG. 5

